

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

JAMES B. HUNT JR. Governor P.O. BOX 25201, RALEIGH, N.C. 27611-5201

DAVID MCCOY
SECRETARY

MEMORANDUM TO: Project Engineers

Project Design Engineers

FROM: T. V. Rountree, P. E.

State Bridge Design Engineer

DATE: April 14,2000

SUBJECT: DIRECT TENSION INDICATORS

At the request of the Construction Unit, and to ensure proper bolt tension, all steel girder bolted connections shall include direct tension indicators. The turn-of-the-nut method will no longer be allowed. Place the following note on the plans:

Tension on the AASHTO M164 bolts shall be calibrated using direct tension indicator washers. For Direct Tension Indicators, see Special Provisions.

This policy is effective with the July 2000 letting. The Design Manual and Project Special Provisions will be revised at a later date.

TVR/RH/



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